

ABSTRACT

The present invention relates to optimal compositions useful in treating HCV infections in humans.

- 5 These compositions comprise alpha-interferon or a derivative thereof and an IMPDH inhibitor, wherein the IMPDH inhibitor is present in an amount such that a ratio of  $C_{avg}/C_{min}$  is between 1 to 10, wherein:

- $C_{avg}$  is average plasma concentration produced by  
10 said IMPDH inhibitor in said human; and

$C_{min}$  is estimated trough concentration produced by said IMPDH inhibitor in said human.

- The present invention also relates to methods of producing and using the optimal compositions to treat HCV  
15 infections in humans.